| From the INTERNATIONAL SEARCHING AUTHORITY | DCT | |
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| BAYER CORPORATION Attn. Van Eyl, Diderico 100 Bayer Road Pittsburgh, PA 15205-9741 UNITED STATES OF AMERICA | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1) Date of mailing | |
| | (day/month/year) 01/08/2003 | |
| Applicant's or agent's file reference Mo7306PCT | FOR FURTHER ACTION See paragraphs 1 and 4 below | |
| International application No. PCT/US 03/01825 | International filing date (day/month/year) 22/01/2003 | |
| Applicant | , , , | |
| H.C. STARCK INC. | | |
| The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims When? The time limit for filing such amendments is normal International Search Report; however, for more det Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35 | s of the International Application (see Rule 46): ly 2 months from the date of transmittal of the ails, see the notes on the accompanying sheet. | |
| For more detailed instructions, see the notes on the accommodate. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith. | | |
| applicant's request to forward the texts of both the prote | transmitted to the International Bureau together with the st and the decision thereon to the designated Offices. | |
| no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: | | |
| Shortly after 18 months from the priority date, the international app If the applicant wishes to avoid or postpone publication, a notice of priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publications. | of withdrawal of the international application, or of the Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the on. | |
| Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 months. Within 20 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound be | the prescribed acts for entry into the national phase | |
| Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer Véronique Haillou | |

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

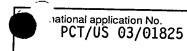
For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicants or agents file reference | | of Transmittal of International Search Report | |
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| Mo7306PCT | ACTION (Form PC1/ISA/220) as well as, where applicable, item 5 below. | | |
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) | |
| PCT/US 03/01825 | 22/01/2003 | 24/01/2002 | |
| Applicant | | | |
| H.C. STARCK INC. | | | |
| H.C. STARCK INC. | | | |
| This International Search Report has bee according to Article 18. A copy is being tra | n prepared by this International Searching Autansmitted to the International Bureau. | thority and is transmitted to the applicant | |
| This International Search Report consists It is also accompanied by | of a total of sheets. a copy of each prior art document cited in this | s report. | |
| 1. Basis of the report | | | |
| With regard to the language, the language in which it was filed, unli | international search was carried out on the ba ess otherwise indicated under this item. | sis of the international application in the | |
| Authority (Hule 23.1(b)). | as carried out on the basis of a translation of t | | |
| was carried out on the basis of the | d/or amino acid sequence disclosed in the iresequence listing: nal application in written form. | nternational application, the international search | |
| | rnational application in computer readable form | m. | |
| furnished subsequently to | this Authority in written form. | | |
| furnished subsequently to | this Authority in computer readble form. | | |
| the statement that the sub international application as | sequently furnished written sequence listing d s filed has been furnished. | loes not go beyond the disclosure in the | |
| | | s identical to the written sequence listing has been | |
| 2. Certain claims were four | nd unsearchable (See Box I). | | |
| 3. X Unity of invention is lack | ing (see Box II). | | |
| With regard to the title, | | | |
| the text is approved as sub | emitted by the applicant | | |
| | ned by the applicant. led by this Authority to read as follows: | • | |
| | , , | • | |
| 5. With regard to the abstract, | | | |
| the text is approved as sub the text has been establish within one month from the | mitted by the applicant. ed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep | y as it appears in Box III. The applicant may, ort, submit comments to this Authority. | |
| 5. The figure of the drawings to be publis | _ | 1 | |
| X as suggested by the applic | | None of the figures. | |
| because the applicant faile | | | |
| because this figure better c | haracterizes the invention. | | |





| Box I | Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet) |
|------------|--|
| This Inte | ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| 1. | Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: |
| 2. | Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
| | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box II | Observations where unity of invention is lacking (Continuation of item 2 of first sheet) - |
| This Inter | national Searching Authority found multiple inventions in this international application, as follows: |
| | see additional sheet |
| 1. | As all required additional search fees were timely paid by the applicant, this International Search Report covers all earchable claims. |
| 2. A | As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| 3. A | as only some of the required additional search fees were timely paid by the applicant, this International Search Report overs only those claims for which fees were paid, specifically claims Nos.: |
| | lo required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| Remark or | The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees. |

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-8

A process for making a refractory metal part by supplying a metal powder feed to a laser focal zone close to the surface of a substrate, where the powder is at least partially melted and resolidified to form a film. The product obtainable thereof.

2. Claims: 9-11

a method for rejuvenating a tantalum sputtering target involving the use of a plasma and the rejuvenated tantalum sputtering target obtainable thereof.

3. Claims: 12-14

a method for rejuvenating a tantalum sputtering target by laser sintering and the rejuvenated tantalum sputtering target obtainable thereof.

4. Claims: 15-16

a method for rejuvenating a tantalum sputtering target ba subjecting an eroded region of a sputtering target to hot isostatic pressing and the rejuvenated tantalum sputtering target obtainable thereof.

INTERNATIONAL SEARCH REPORT

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| Inter hal | Application No |
|-----------|----------------|
| /US | 03/01825 |

| A CLASS | SIEICATION OF SUBJECT MATTER | | |
|------------------------|---|---|-----------------------|
| ÎPC 7 | SIFICATION OF SUBJECT MATTER C23C26/00 | | |
| | to International Patent Classification (IPC) or to both national class | sification and IPC | |
| | SEARCHED | | |
| IPC 7 | locumentation searched (classification system followed by classifi C23C | cation symbols) | |
| Documenta | ation searched other than minimum documentation to the extent th | at such documents are included in the fields s | earched |
| Electronic o | data base consulted during the international search (name of data | base and, where practical, search terms used | 1) |
| EPO-In | nternal, WPI Data, PAJ, IBM-TDB, II | NSPEC, COMPENDEX | |
| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | | |
| Category ° | Citation of document, with indication, where appropriate, of the | relevant passages | Relevant to claim No. |
| X | ABBOTT D H ET AL: "LASER FORMI COMPONENTS" ADVANCED MATERIALS & PROCESSES, SOCIETY FOR METALS. METALS PARK vol. 153, no. 5, May 1998 (1998 29-30, XP001120282 ISSN: 0882-7958 cited in the application the whole document | AMERICA | 1-6,8 |
| X Furth | er documents are listed in the continuation of box C. | Patent family members are listed in | ı annex. |
| ° Special cate | egories of cited documents : | <u> </u> | |
| "A" documer | nt defining the general state of the art which is not erred to be of particular relevance | "T" later document published after the inter or priority date and not in conflict with t cited to understand the principle or the | he application but |
| | ocument but published on or after the international | invention "X" document of particular relevance; the cl cannot be considered novel or cannot | aimed invention |
| which is | nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified) | involve an inventive step when the doc "Y" document of particular relevance: the cla | ument is taken alone |
| "O" documer other m | nt referring to an oral disclosure, use, exhibition or leans | cannot be considered to involve an involve an involve an involve ments, such combination being obvious | e other such docu- |
| later tha | nt published prior to the international filing date but an the priority date claimed | in the art. "%" document member of the same patent fa | amily |
| | ctual completion of the international search | Date of mailing of the international sear | ch report , |
| | 5 May 2003 | 0108.03 | |
| Name and ma | ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 | Authorized officer | |
| | NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Brisson, O | Ì |

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INTERNATIONAL SEARCH REPORT



T/US 03/01825

| C.(Continu | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | 73/01023 |
|------------|---|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | ARCELLA F. G., FROES F. H.: "Producing titanium aerospace components from powder using laser forming" JOM, MINERALS, METALS & MATERIALS SOC (TMS), WARRENDALE, PA, USA, May 2000 (2000-05), pages 28-30, XP001157479 ISSN: 1047-4838 cited in the application the whole document | 1-6,8 |
| X | GRIFFITH M. L. ET AL: "UNDERSTANDING THE MICROSTRUCTURE AND PROPERTIES OF COMPONENTS FABRICATED BY LASER ENGINEERED NET SHAPING (LENS)" MATERIAL RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS, SOLID FREEFORM AND ADDITIVE FABRICATION - 2000 CONF., SAN FRANCISCO, CA, USA, vol. 625, 24 - 26 April 2000, pages 9-20, XP001157465 ISSN: 0272-9172 the whole document | 1-6,8 |
| | | |